



**United States Environmental Protection Agency
Region 9 Laboratory**

**1337 S. 46th Street Building 201
Richmond, CA 94804**

Date: 2/6/2012

Subject: Analytical Testing Results - Project R33911
SDG: 12032A

From: Brenda Bettencourt, Director
EPA Region 9 Laboratory
MTS-2

To: Richard Fetzer
US EPA Region 3, Eastern Response Branch
3HS31

Attached are the results from the analysis of samples from the **Dimock Residential Groundwater** project. These data have been reviewed in accordance with EPA Region 9 Laboratory policy.

A full documentation package for these data, including raw data and sample custody documentation, is on file at the EPA Region 9 Laboratory. If you would like to request additional review and/or validation of the data, please contact Eugenia McNaughton at the Region 9 Quality Assurance Office.

If you have any questions, please ask for Richard Bauer, the Lab Project Manager at (510)412-2300.

Analyses included in this report:

Dissolved Hydrocarbon Gases by GC



United States Environmental Protection Agency
Region 9 Laboratory

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Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager: Richard Fetzer

Project Number: R33911

Project: Dimock Residential Groundwater

US EPA Region 3, Eastern Response Branch

100 Gypsum Road

Stroudsburg PA, 18360

SDG: 12032A

Reported: 02/06/12 15:21

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
HW13	1202001-04	Water	01/30/12 11:23	02/01/12 08:00
HW18-P	1202001-05	Water	01/30/12 11:52	02/01/12 08:00
HW20	1202001-06	Water	01/30/12 16:12	02/01/12 08:00
HW20-P	1202001-07	Water	01/30/12 16:29	02/01/12 08:00
HW25-P	1202001-08	Water	01/30/12 15:32	02/01/12 08:00
EB01	1202001-09	Water	01/28/12 11:26	02/01/12 08:00
FB06	1202001-10	Water	01/30/12 09:30	02/01/12 08:00
HW18	1202001-11	Water	01/30/12 11:27	02/01/12 08:00
TB08	1202001-12	Water	01/28/12 14:22	02/01/12 08:00
TB09	1202001-13	Water	01/30/12 07:15	02/01/12 08:00

SDG ID 12032A

Work Order(s)

1202001



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Sample Results

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
Lab ID: 1202001-04		Water - Sampled: 01/30/12 11:23							
Sample ID: HW13		Dissolved Gases by RSK-175							
Methane	RE1	1,300		9.7	ug/L	B2B0008	02/02/12	02/02/12	RSK-175/SOP325
Ethane		24		1.2	"	B2B0006	02/01/12	02/01/12	RSK-175/SOP325
Ethene		ND	U	1.1	"	"	"	"	RSK-175/SOP325
<i>Surrogate: Acetylene</i>			112 %	66.4-153%		"	"	"	
<i>Surrogate: Acetylene</i>	RE1		110 %	66.4-153%		B2B0008	02/02/12	02/02/12	
Lab ID: 1202001-05		Water - Sampled: 01/30/12 11:52							
Sample ID: HW18-P		Dissolved Gases by RSK-175							
Methane		160		1.2	ug/L	B2B0006	02/01/12	02/01/12	RSK-175/SOP325
Ethane		ND	U	1.2	"	"	"	"	RSK-175/SOP325
Ethene		ND	U	1.1	"	"	"	"	RSK-175/SOP325
<i>Surrogate: Acetylene</i>			108 %	66.4-153%		"	"	"	
Lab ID: 1202001-06		Water - Sampled: 01/30/12 16:12							
Sample ID: HW20		Dissolved Gases by RSK-175							
Methane		2.6	B1, J	1.2	ug/L	B2B0006	02/01/12	02/01/12	RSK-175/SOP325
Ethane		ND	U	1.2	"	"	"	"	RSK-175/SOP325
Ethene		ND	U	1.1	"	"	"	"	RSK-175/SOP325
<i>Surrogate: Acetylene</i>			115 %	66.4-153%		"	"	"	
Lab ID: 1202001-07		Water - Sampled: 01/30/12 16:29							
Sample ID: HW20-P		Dissolved Gases by RSK-175							
Methane		2.1	B1, J	1.2	ug/L	B2B0006	02/01/12	02/01/12	RSK-175/SOP325
Ethane		ND	U	1.2	"	"	"	"	RSK-175/SOP325
Ethene		ND	U	1.1	"	"	"	"	RSK-175/SOP325
<i>Surrogate: Acetylene</i>			110 %	66.4-153%		"	"	"	
Lab ID: 1202001-08		Water - Sampled: 01/30/12 15:32							
Sample ID: HW25-P		Dissolved Gases by RSK-175							
Methane	RE1	65,000		640	ug/L	B2B0008	02/02/12	02/02/12	RSK-175/SOP325
Ethane		26		1.2	"	B2B0006	02/01/12	02/01/12	RSK-175/SOP325
Ethene		ND	U	1.1	"	"	"	"	RSK-175/SOP325
<i>Surrogate: Acetylene</i>			102 %	66.4-153%		"	"	"	
<i>Surrogate: Acetylene</i>	RE1		110 %	66.4-153%		B2B0008	02/02/12	02/02/12	
Lab ID: 1202001-09		Water - Sampled: 01/28/12 11:26							
Sample ID: EB01		Dissolved Gases by RSK-175							
Methane		29		1.2	ug/L	B2B0006	02/01/12	02/01/12	RSK-175/SOP325
Ethane		ND	U	1.2	"	"	"	"	RSK-175/SOP325
Ethene		ND	U	1.1	"	"	"	"	RSK-175/SOP325



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Sample Results

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
Lab ID: 1202001-09							Water - Sampled: 01/28/12 11:26		
Sample ID: EB01							Dissolved Gases by RSK-175		
Surrogate: Acetylene		111 %		66.4-153%		B2B0006	02/01/12	02/01/12	
Lab ID: 1202001-10							Water - Sampled: 01/30/12 09:30		
Sample ID: FB06							Dissolved Gases by RSK-175		
Methane		9.5		1.2	ug/L	B2B0006	02/01/12	02/01/12	RSK-175/SOP325
Ethane		ND	U	1.2	"	"	"	"	RSK-175/SOP325
Ethene		ND	U	1.1	"	"	"	"	RSK-175/SOP325
Surrogate: Acetylene		107 %		66.4-153%		"	"	"	
Lab ID: 1202001-11							Water - Sampled: 01/30/12 11:27		
Sample ID: HW18							Dissolved Gases by RSK-175		
Methane		190		1.2	ug/L	B2B0006	02/01/12	02/01/12	RSK-175/SOP325
Ethane		ND	U	1.2	"	"	"	"	RSK-175/SOP325
Ethene		ND	U	1.1	"	"	"	"	RSK-175/SOP325
Surrogate: Acetylene		112 %		66.4-153%		"	"	"	
Lab ID: 1202001-12							Water - Sampled: 01/28/12 14:22		
Sample ID: TB08							Dissolved Gases by RSK-175		
Methane		3.6		1.2	ug/L	B2B0006	02/01/12	02/02/12	RSK-175/SOP325
Ethane		ND	U	1.2	"	"	"	"	RSK-175/SOP325
Ethene		ND	U	1.1	"	"	"	"	RSK-175/SOP325
Surrogate: Acetylene		105 %		66.4-153%		"	"	"	
Lab ID: 1202001-13							Water - Sampled: 01/30/12 07:15		
Sample ID: TB09							Dissolved Gases by RSK-175		
Methane		3.1	B1, J	1.2	ug/L	B2B0006	02/01/12	02/02/12	RSK-175/SOP325
Ethane		ND	U	1.2	"	"	"	"	RSK-175/SOP325
Ethene		ND	U	1.1	"	"	"	"	RSK-175/SOP325
Surrogate: Acetylene		112 %		66.4-153%		"	"	"	



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Quality Control

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch B2B0006 - RSK175 - Dissolved HC Gases

Prepared & Analyzed: 02/01/12

Dissolved Gases by RSK-175 - Quality Control

Blank (B2B0006-BLK1)

Methane	0.7	C1, J		1.2 ug/L						
Ethane	ND	U		1.2 "						
Ethene	ND	U		1.1 "						

<i>Surrogate: Acetylene</i>	72.6			"	66.5		109	66.4-153		
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LCS (B2B0006-BS1)

Methane	46.5			1.2 ug/L	44.1		105	70-130		
Ethane	91.5			1.2 "	83.2		110	77-137		
Ethene	85.7			1.1 "	78.3		110	78-138		

<i>Surrogate: Acetylene</i>	77.9			"	72.0		108	66.4-153		
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Batch B2B0008 - RSK175 - Dissolved HC Gases

Prepared & Analyzed: 02/02/12

Dissolved Gases by RSK-175 - Quality Control

Blank (B2B0008-BLK1)

Methane	0.6	C1, J		1.2 ug/L						
Ethane	ND	U		1.2 "						
Ethene	ND	U		1.1 "						

<i>Surrogate: Acetylene</i>	73.7			"	66.5		111	66.4-153		
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LCS (B2B0008-BS1)

Methane	42.6			1.2 ug/L	44.1		97	70-130		200
Ethane	84.1			1.2 "	83.2		101	77-137		200
Ethene	79.8			1.1 "	78.3		102	78-138		200

<i>Surrogate: Acetylene</i>	77.7			"	72.0		108	66.4-153		
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Qualifiers and Comments

J The reported result for this analyte should be considered an estimated value.

C1 The reported concentration for this analyte is below the quantitation limit.

B1 The concentration of this analyte found in this sample was less than five times the concentration found in the associated method blank.

U Not Detected

NR Not Reported

RE1, RE2, etc: Result is from a sample re-analysis.